Ecosystem-based Adaptation through South-South Cooperation (EbA South)

“Enhancing Capacity, Knowledge and Technology Support to Build Climate Resilience of Vulnerable Developing Countries”

EbA South is funded by the Global Environment Facility (GEF), implemented by the United Nations Environment Programme (UN Environment) and executed by the National Development and Reform Commission (NDRC) of China, through the Institute of Geographic Science and Natural Resources Research, Chinese Academy of Sciences (IGSNRR, CAS)

Terms of Reference

Natural Resources Economist (Seychelles)

BACKGROUND

The adverse effects of climate change are being experienced by local communities within a wide range of economic sectors in developing countries across Africa and Asia-Pacific. The overall goal of the GEF-funded project EbA South is to reduce the vulnerability of developing African and Asia-Pacific countries to climate change impacts by providing capacity, knowledge and technology support. The project comprises three components to be implemented over four years (2013-2017), namely: i) inter-regional coordination and capacity building for developing countries to plan and implement Ecosystem-based Adaptation (EbA); ii) inter-regional online EbA knowledge support; and iii) transfer of EbA technologies to pilot countries. The latter component consists of concrete, on-the-ground EbA interventions in Seychelles, Nepal and Mauritania, representing coastal, mountain and arid/semi-arid ecosystems respectively.

In Seychelles, the project is implementing mangroves and wetlands restoration through EbA technologies, within a long-term research framework. Interventions are being conducted at selected sites, which are highly vulnerable to climate change impacts.

In order to meet the project objectives, a Natural Resources Economist (NRE) will be hired to strengthen the project team in Seychelles.
DUTIES AND RESPONSIBILITIES

The NRE will be evaluated in accordance with the successful implementation of related project activities.

Tasks and responsibilities

- Identify one project site (Cap Samy or Petit Barbarons) for economic analysis, where both ecosystem-based adaptation options (e.g. mangroves replanting) and engineering options (e.g. culvert replacement to improve the hydrological flow and to link the fragmented wetlands) are being practised for climate change adaptation.

- Conduct a baseline and predictive assessment of hydrology and ecosystem services at the selected site.

- Develop a cost-benefit analysis (CBA) of the applied climate change adaptation actions, over a period of 50 years, based on: i) the project’s actual costs of implementation and the predicted continuous maintenance cost at a chosen discount rate; ii) the hydrology and ecosystem services assessment; and iii) the project experts’ opinion on the economic value of ecosystem goods and services to be derived over the next 50 years.

- Conclude key implications by comparing different climate change adaptation scenarios: applying ecosystem-based adaptation, engineering, and hybrid actions.

- Provide technical support to the National Focal Point (NFP) and the National Project Coordinator (NPC) whenever relevant.

- Communicate frequently with the national project team and with the international experts involved in the project.

Key deliverables

- A site-specific assessment report of hydrology flows and ecosystem services.

- A cost-benefit analysis report of ecosystem-based adaption and engineering options for climate change adaptation, with key implications.

REPORTING

The consultant will report to the Seychelles NPC and NFP, and cooperate with other national consultants, Project Management Unit (PMU), Technical Advisor (TA) and other members of the project team to ensure the implementation of the project tasks.

TIME FRAME

This is short-term, part-time consultancy position. The contract will be from April to mid-August 2018.
### REQUIRED SKILLS AND COMPETENCIES

- At least master’s degree in Economics, Commerce or related disciplines and/or equivalent experience/academic training
- Proven professional experience in applying similar metrologies in the field of climate change adaptation and natural resource management, particularly related to mangrove and coastal ecosystems.
- Demonstrated experience working in collaboration with Ministries, research institutes and local communities.
- Ability to work as part of an inter-disciplinary team.
- Good communication, writing and computer skills
- Fluent in spoken and written English.

### APPLICATION PROCEDURE

Please send your CV with cover letter, work plan and a quote via email to:

Wills Agricole, Ministry of Environment Energy and Climate Change - Climate Change Division, [w.agricole@meteo.gov.sc](mailto:w.agricole@meteo.gov.sc);

Pugazhendhi Murugaiyan, Ministry of Environment Energy and Climate Change - Climate Change Division, [p.murugaiyan@env.gov.sc](mailto:p.murugaiyan@env.gov.sc)

cc: Diwen Tan, Project Officer at UNEP-IEMP, [diwen.tan@unep-iemp.org](mailto:diwen.tan@unep-iemp.org)

Application deadline: **29 March 2018**

### Disclaimer:

- The successful applicant shall not become a staff member of the United Nations or UN Environment, but shall sign a contract with the Ministry of Environment, Energy and Climate Change (MEECC) of Seychelles.
- United Nations or UN Environment shall neither be responsible nor liable for any claims which may arise from this employment and MEECC shall take full responsibility in this regard.